

**United States Department of Agriculture  
Agricultural Marketing Service, Science & Technology  
Pesticide Data Program**

SOP No.: PDP-QC-13D		Page 1 of 6
Title: Commodity Specific Requirements for Oranges		
Revision: 1	Replaces: 01/01/00	Effective: 07/01/01

**1. Purpose:**

To provide a listing of PDP identified required compounds for oranges.

**2. Scope:**

This standard operating procedure shall be followed by all laboratories analyzing oranges for PDP. This SOP shall be used in conjunction with QC-13 which identifies commodity groupings for selected/single screens, validation purposes, and approved process controls.

**3. Outline of Procedure:**

- 5.1 Compounds Required for Multi Residue Screens
- 5.2 Multi Residue Marker Pesticides for Oranges

**4. References:**

- SOP PDP-QC-13, "Required Compounds, Commodity Groups, and Marker Pesticides", revision 5, January 1, 2000
- Federal/State Meeting, October 26-28, 1999

**5. Specific Procedures:**

This standard operating procedure (SOP) represents minimum PDP requirements and is presented as a general guideline. Each laboratory shall have written procedures that provide specific details concerning how the procedure has been implemented in that laboratory.

---

**United States Department of Agriculture  
Agricultural Marketing Service, Science & Technology  
Pesticide Data Program**

SOP No.: PDP-QC-13D		Page 2 of 6
Title: Commodity Specific Requirements for Oranges		
Revision: 1	Replaces: 01/01/00	Effective: 07/01/01

### 5.1 Compounds Required for Oranges Multi Residue Screens

<b>Oranges Compound</b>	<b>Reported As</b>	<b>Pest Code</b>
Aldicarb sulfone		168
Aldicarb sulfoxide		169
Azinphos methyl		042
Captafol		174
Carbaryl		102
Chlorpyrifos		160
Cyfluthrin		781
DDE	DDE o,p'	911
	and/or DDE p,p'	910
	or DDE (total combined)	300
Diazinon		024
Diazinon O-analog		395
Dichlorvos		338
Dicofol/Dichlorobenzophenone	Dicofol o,p'	253
	and/or Dicofol p,p'	254
	or Dicofol (total combined)	047
Dieldrin <sup>1</sup>		028
Dimethoate		171
Ethion		107
Ethion mono oxon		AAX
Fenamiphos		236
Fenamiphos sulfone		745

<sup>1</sup> Required only on samples received by CA1 from CA and MD. Analysis by FL1 on samples received from CO, FL, MI, NY, OH, TX, WA, and WI is not required.

**United States Department of Agriculture  
Agricultural Marketing Service, Science & Technology  
Pesticide Data Program**

SOP No.: PDP-QC-13D		Page 3 of 6
Title: Commodity Specific Requirements for Oranges		
Revision: 1	Replaces: 01/01/00	Effective: 07/01/01

<b>Oranges Compound</b>	<b>Reported As</b>	<b>Pest Code</b>
Imazalil		604
Lindane		050
Malathion		052
Malathion O-analog		208
Metalaxyl		607
Methidathion		197
Methomyl		159
Mevinphos	Mevinphos E	579
	and Mevinphos Z	578
	or Mevinphos (total combined)	069
Norflurazon		596
Norflurazon desmethyl		AAS
Omethoate		178
o-Phenylphenol		083
Oxamyl		537
Oxydemeton methyl sulfone		245
Parathion methyl		057
Parathion methyl O-analog		779
Phosmet		165
Phosphamidon		203
Piperonyl butoxide		070
Propargite		623
Simazine		149
Tetradifon		108
Thiabendazole		157
Trifluralin		151

**United States Department of Agriculture  
Agricultural Marketing Service, Science & Technology  
Pesticide Data Program**

SOP No.: PDP-QC-13D		Page 4 of 6
Title: Commodity Specific Requirements for Oranges		
Revision: 1	Replaces: 01/01/00	Effective: 07/01/01

**5.2 Multi Residue Marker Pesticides for Oranges**

Aldicarb sulfoxide	Azinphos methyl	Carbaryl
DDE p,p'	Diazinon	Dimethoate
Ethion	Methomyl	Propargite
Thiabendazole		

**United States Department of Agriculture  
Agricultural Marketing Service, Science & Technology  
Pesticide Data Program**

SOP No.: PDP-QC-13D		Page 5 of 6
Title: Commodity Specific Requirements for Oranges		
Revision: 1	Replaces: 01/01/00	Effective: 07/01/01

*Frances M. Gross*

*06/25/01*

Reviewed By: Frances M. Gross  
Presiding Member of PDP QA Committee  
New York Department of Agriculture and Markets  
Food Laboratory  
State Office Campus, Building 7  
Albany, New York 12235  
(518) 457-5734

Date

*Diana Haynes*

*06/27/01*

Reviewed By: Diana Haynes  
Quality Assurance Officer, PDP  
8700 Centreville Road, Suite 200  
Manassas, VA 20110  
(703) 330-2300

Date

*Kenneth Payne*

*06/27/01*

(for) Approved By: Martha Lamont  
Deputy Director, Monitoring Programs Office  
8700 Centreville Road, Suite 200  
Manassas, VA 20110  
(703) 330-2300

Date

*ORIGINAL SIGNATURE PAGE MAINTAINED BY USDA, AMS, S&T, MONITORING PROGRAMS OFFICE  
ELECTRONICALLY REPRODUCED SIGNATURES*

---

**United States Department of Agriculture  
Agricultural Marketing Service, Science & Technology  
Pesticide Data Program**

SOP No.: PDP-QC-13D		Page 6 of 6
Title: Commodity Specific Requirements for Oranges		
Revision: 1	Replaces: 01/01/00	Effective: 07/01/01

Revision 1

April 2001

Monitoring Programs Office

---

- Removed dieldrin from FL1 testing requirements